

OMBRO—OMHCHO—OMOCLO Known Issues

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This document provides up-to-date information on known issues of the SAO OMI data products OMBRO (BrO total columns), OMHCHO (HCHO total columns), and OMOCLO (OCIO slant columns). It is updated more frequently than the README files for the individual products.

OMBRO:

Software Version	Known Issues
All versions	Across-track striping in the data product (see OMSAO_DeStriping_README).
1.0.0	Some correlation with scene albedo. TimeUTC field wrong due to format conversion error.
0.9.50	Some correlation with scene albedo.
0.9.46	Column amounts too low by about a factor of 2. Pixel corner latitudes and longitudes mostly unusable, particularly in the case of spatial zoom data (30 across-track pixels).
0.9.45	Not delivered to AVDC
0.9.43, 0.9.44	The stratospheric air mass factor (AMF) used to convert slant to vertical columns is wrong due to an index error in the code. The total columns provided in the data files have to be converted back to slant columns by multiplying them with the AMF (HE5 field name AirMassFactor). If geometric BrO columns are desired, the slant columns may be divided by the geometric AMF (HE5 field AirMassFactorGeometric). A new version with corrected AMFs is in preparation.

OMHCHO:

Software Version	Known Issues
All versions	Across-track striping in the data product (see OMSAO_DeStriping_README).
1.0.0	TimeUTC field wrong due to format conversion error.
0.9.50	None known.
0.9.46	Column amounts too high by about a factor of 2-3. Pixel corner latitudes and longitudes are mostly unusable, particularly in the case of spatial zoom data (30 across-track pixels).

OMOCLO:

Software Version	Known Issues
All versions	Across-track striping in the data product (see OMSAO_DeStriping_README).
1.0	Slant column amounts 2-4 times higher than corresponding SCIAMACHY values; non-zero background values at lower latitudes. TimeUTC field wrong due to format conversion error.
0.9.50	Slant column amounts 2-4 times higher than corresponding SCIAMACHY values; non-zero background values at lower latitudes.
0.9.46	Pixel corner latitudes and longitudes are mostly unusable, particularly in the case of spatial zoom data (30 across-track pixels).